

EEEEEEEEE	RRRRRRRRR	FFFFFFFFFF
EEEEEEEEE	RRRRRRRRR	FFFFFFFFFF
EEEEEEEEE	RRRRRRRRR	FFFFFFFFFF
EEE	RRR	FFF
EEEEEEEEE	RRRRRRRRR	FFFFFFFFFF
EEEEEEEEE	RRRRRRRRR	FFFFFFFFFF
EEEEEEEEE	RRRRRRRRR	FFFFFFFFFF
EEE	RRR	FFF
EEEEEEEEE	RRR	FFF
EEEEEEEEE	RRR	FFF
EEEEEEEEE	RRR	FFF

\*\*FILE\*\*ID\*\*BRIEF

L 12

BBBBBBBB	RRRRRRRR		EEEEEEEEE	FFFFFFFFF
BBBBBBBB	RRRRRRRR		EEEEEEEEE	FFFFFFFFF
BB BB	RR RR		EE	FF
BB BB	RR RR		EE	FF
BB BB	RR RR		EE	FF
BB BB	RR RR		EE	FF
BBBBBBBB	RRRRRRRR		EEEEEEEEE	FFFFFFFFF
BBBBBBBB	RRRRRRRR		EEEEEEEEE	FFFFFFFFF
BB BB	RR RR		EE	FF
BB BB	RR RR		EE	FF
BB BB	RR RR		EE	FF
BB BB	RR RR		EE	FF
BBBBBBBB	RR RR		EEEEEEEEE	FF
BBBBBBBB	RR RR		EEEEEEEEE	FF

....

LL		SSSSSSSS
LL		SSSSSSSS
LL		SS
LL		SS
LL		SS
LL		SSSSSS
LL		SSSSSS
LL		SS
LL		SS
LL		SS
LLLLLLLL		SSSSSSSS
LLLLLLLL		SSSSSSSS

M 12  
16-Sep-1984 00:17:59  
5-Sep-1984 13:48:44

VAX-11 FORTRAN V3.4-56  
DISK\$VMSMASTER:[ERF.SRC]BRIEF.FOR;1

Page 1

0001 SUBROUTINE BRIEF (LUN,NUMREG,REGISTERS,REG\_HERALD,NAME,UNIT)  
0002  
0003 C Version: 'V04-000'  
0004 C\*\*\*\*\*  
0005 C\*  
0006 C\* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
0007 C\* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.  
0008 C\* ALL RIGHTS RESERVED.  
0009 C\*  
0010 C\* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  
0011 C\* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE  
0012 C\* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER  
0013 C\* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  
0014 C\* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY  
0015 C\* TRANSFERRED.  
0016 C\*  
0017 C\* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE  
0018 C\* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT  
0019 C\* CORPORATION.  
0020 C\*  
0021 C\* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS  
0022 C\* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.  
0023 C\*  
0024 C\*  
0025 C\*  
0026 C\*\*\*\*\*  
0027 C  
0028 C  
0029 C  
0030 C AUTHOR BRIAN PORTER CREATION DATE 18-SEP-1979  
0031 C  
0032 C  
0033 C Modified by:  
0034 C  
0035 C V03-001 SAR0063 Sharon A. Reynolds, 20-Jun-1983  
0036 C Changed carriage control in the 'format' statements  
0037 C for use in ERF.  
0038 C  
0039 C v02-002 BP0002 Brian Porter, 29-JUN-1981  
0040 C Removed code to display name and unit.  
0041 C  
0042 C V02-001 SR0001 Sharon Reynolds, 19-Nov-1980  
0043 C Added code to determine whether BRIEF was called from  
0044 C CRYPTK to fix the problem with the device registers  
0045 C being printed twice on the cryptk report.  
0046 C  
0047 C\*\*  
0048 C  
0049 C Include 'SRC\$:SYECOM.FOR /nolist'  
0178 C  
0179 C  
0180 C BYTE LUN  
0181 C  
0182 C BYTE NUMREG  
0183 C  
0184 C INTEGER\*2 UNIT

```
0185      INTEGER*4      REGISTERS(0:NUMREG-1)
0186
0187      INTEGER*4      FIELD
0188
0189      INTEGER*4      COMPRESS4
0190
0191      INTEGER*4      COMPRESSC
0192
0193      CHARACTER*(*)   REG_HERALD(0:NUMREG-1)
0194
0195      CHARACTER*3     NAME
0196
0197
0198
0199
0200
0201      ENTRY BRIEF16 (LUN,NUMREG,REGISTERS,REG_HERALD,NAME,UNIT)
0202
0203
0204
0205
0206      IF (NUMREG .GT. 12) NUMREG = 12
0207
0208      CALL LINCHK (LUN,3)
0209
0210      WRITE(LUN,10) (REG_HERALD(I),I = 0,NUMREG - 1)
0211      FORMAT(' ',<NUMREG>(:,T<(I*5)+8>,A<COMPRESSC (REG_HERALD(I))>),/)
0212
0213
0214      If (cryptk_flag) then
0215      Return
0216      Endif
0217
0218
0219      ENTRY BRIEF16_A (LUN,NUMREG,REGISTERS)
0220
0221
0222
0223
0224      IF (NUMREG .GT. 12) NUMREG = 12
0225
0226      CALL LINCHK (LUN,1)
0227
0228      WRITE(LUN,20) (JIAND(REGISTERS(I),'FFFF'X),I = 0,NUMREG - 1)
0229      FORMAT(' ',<NUMREG>(:,T<(I*5)+8>,Z4.4))
0230
0231      RETURN
0232
0233
0234
0235      ENTRY BRIEF32 (LUN,NUMREG,REGISTERS,REG_HERALD,NAME,UNIT)
0236
0237
0238
0239      IF (NUMREG .GT. 7) NUMREG = 7
0240
0241      CALL LINCHK (LUN,3)
```

```

0242
0243      WRITE(LUN,30) (REG_HERALD(I), I = 0,NUMREG - 1)
0244      FORMAT(' ',<NUMREG>(:,T<(I*9)+8>,
0245      1 ACCOMPRESSC (REG_HERALD(I))),/)
0246
0247
0248      If (cryptk_flag) then
0249      Return
0250      Endif
0251
0252
0253      ENTRY BRIEF32_A (LUN,NUMREG,REGISTERS)
0254
0255
0256
0257      IF (NUMREG .GT. 7) NUMREG = 7
0258
0259      CALL LINCHK (LUN,1)
0260
0261      WRITE(LUN,40) (REGISTERS(I), I = 0,NUMREG - 1)
0262      FORMAT(' ',<NUMREG>(:,T<(I*9)+8>,Z8.8))
0263
0264      RETURN
0265
0266      END

```

## PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	803	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	106	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	148	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 SYECOM	44	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	1101	

## ENTRY POINTS

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
0-00000000		BRIEF	0-00000023		BRIEF16	0-000000B4		BRIEF16_A	0-00000125		BRIEF32
0-000001B6		BRIEF32_A									

## VARIABLES

Address	Type	Name	Address	Type	Name
2-00000004	I*4	COMPRESS4	3-00000012	L*1	CP_11750
3-00000011	L*1	CP_11780	3-00000013	L*1	CP_117ZZ
3-00000014	L*4	CRYPTK_FLAG	3-0000000D	I*4	DEV_CHAR
3-0000001E	L*1	END_VALUE	3-0000001D	L*1	EOF_FLAG

2-00000000	I*4	FIELD
2-00000008	I*4	I
3-00000027	I*4	LSTLUN
3-0000001F	I*4	MAILBOX_CHANNEL
2-0000000ca	L*1	NUMREG
3-00000008	L*4	PRINTER
3-00000023	I*4	RECORD_SIZE
3-00000019	L*1	VALID_CLASS
3-0000001B	L*1	VALID_ENTRY
3-00000018	L*1	VOLUME_OUTPUT

3-00000004	L*4	FORMS
3-0000000C	L*1	LINES
AP-00000004a	L*1	LUN
AP-00000014a	CHAR	NAME
3-0000002B	CHAR	OPTIONS
3-00000000	I*4	RECCNT
AP-00000018a	I*2	UNIT
3-0000001A	L*1	VALID_CPU
3-0000001C	L*1	VALID_TYPE

## ARRAYS

Address	Type	Name	Bytes	Dimensions
AP-0000000ca	I*4	REGISTERS	**	(0:*)
2-00000010a	CHAR	REG_HERALD	**	(0:*)

## LABELS

Address	Label	Address	Label	Address	Label	Address	Label
1-00000008	10'	1-00000023	20'	1-00000039	30'	1-00000054	40'

## FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
I*4	COMPRESSC		LINCHK

## COMMAND QUALIFIERS

```

FORTRAN /LIS=LISS:BRIEF/OBJ=OBJ$:BRIEF MSRC$:BRIEF
/CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)
/DEBUG=(NOSYMBOLS,TRACEBACK)
/STANDARD=(NOSYNTAX,NOSOURCE FORM)
/SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)
/F77 /NOG_FLOATING /I4 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19

```

## COMPILE STATISTICS

Run Time:	2.89 seconds
Elapsed Time:	9.74 seconds
Page Faults:	141
Dynamic Memory:	187 pages

0146 AH-BT13A-SE  
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY

ERFFPRO4  
MAP

ERFFPRO5  
MAP

ERFFPRO6  
MAP

EMBETODEF  
REQ

DEVERR  
FOR

MODES  
FOR

SSMESSAGE  
FOR

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

DEVERRDEF  
REQ

MSGHDR  
FOR

SYECOM  
FOR

BUGCHK  
LIS

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFDEF  
REQ

DEVCLASS  
FOR

BSORTVER  
LIS

B.C.DISP  
LIS

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

ERFTAPE  
MAP

PARSERDAT  
SDL

DR32COM  
FOR

OPCODES  
FOR

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFSUMM  
MAP

VOLMOUNT  
FOR

QIOCOMMON  
FOR

BRIEF  
LIS

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

DEVERRDEF  
REQ

RECSLDEF  
REQ

EMBLMOEF  
FOR

EMBSRDEF  
FOR

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP

ERFPRO1  
MAP

ERFPRO2  
MAP

ERFPRO3  
MAP

ERFPRO4  
MAP

ERFPRO5  
MAP

ERFPRO6  
MAP